

Appendix for LTE Band 5

Product Name: Rugged Android Tablet
Model No: UA80

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.30	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.40	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.23	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.49	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.19	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.28	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.24	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.14	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.28	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.24	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.18	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.09	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.23	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.56	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.92	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.06	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.85	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.03	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.83	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.98	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.88	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.85	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.87	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	20.85	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.90	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.81	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.83	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.93	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.99	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.04	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.94	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.22	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.94	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.11	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.94	PASS

Band5	1.4MHz	16QAM	20643	3RB#0	20.78	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	21.92	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.84	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.91	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.73	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.90	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.90	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.34	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.47	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.29	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.59	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.27	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.47	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.33	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.98	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.28	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.30	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.29	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.26	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.26	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.22	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.04	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.14	PASS
Band5	3MHz	QPSK	20525	1RB#8	21.94	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.18	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.88	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.06	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.01	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.97	PASS
Band5	3MHz	QPSK	20525	8RB#4	20.98	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.87	PASS
Band5	3MHz	QPSK	20525	8RB#7	20.94	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	20.89	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.94	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.06	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.14	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.01	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.16	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.98	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.22	PASS
Band5	3MHz	QPSK	20635	8RB#0	20.98	PASS

Band5	3MHz	16QAM	20635	8RB#0	20.98	PASS
Band5	3MHz	QPSK	20635	8RB#4	20.97	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.90	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.96	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.90	PASS
Band5	3MHz	QPSK	20635	15RB#0	20.96	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.89	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.39	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.29	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.42	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.35	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.29	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.28	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.27	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.86	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.28	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.21	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.18	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.17	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.26	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.85	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.18	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.13	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.03	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.05	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.89	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.96	PASS
Band5	5MHz	QPSK	20525	12RB#0	20.97	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.96	PASS
Band5	5MHz	QPSK	20525	12RB#6	20.97	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.01	PASS
Band5	5MHz	QPSK	20525	12RB#13	20.99	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.86	PASS
Band5	5MHz	QPSK	20525	25RB#0	20.93	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.92	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.15	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.48	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.11	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.35	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.03	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.27	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.06	PASS

Band5	5MHz	16QAM	20625	12RB#0	21.12	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.03	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.18	PASS
Band5	5MHz	QPSK	20625	12RB#13	20.89	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.99	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.02	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.98	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.47	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.75	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.16	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.39	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.37	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.57	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.27	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.22	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.28	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.29	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.21	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.19	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.20	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.20	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.15	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.43	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.85	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.10	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.13	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.34	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.13	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.04	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.09	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.09	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.02	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.07	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.00	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.98	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.19	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.60	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.04	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.30	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.66	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.31	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.13	PASS

Band5	10MHz	16QAM	20600	25RB#0	21.16	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.23	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.18	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.18	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.16	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.20	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.26	PASS

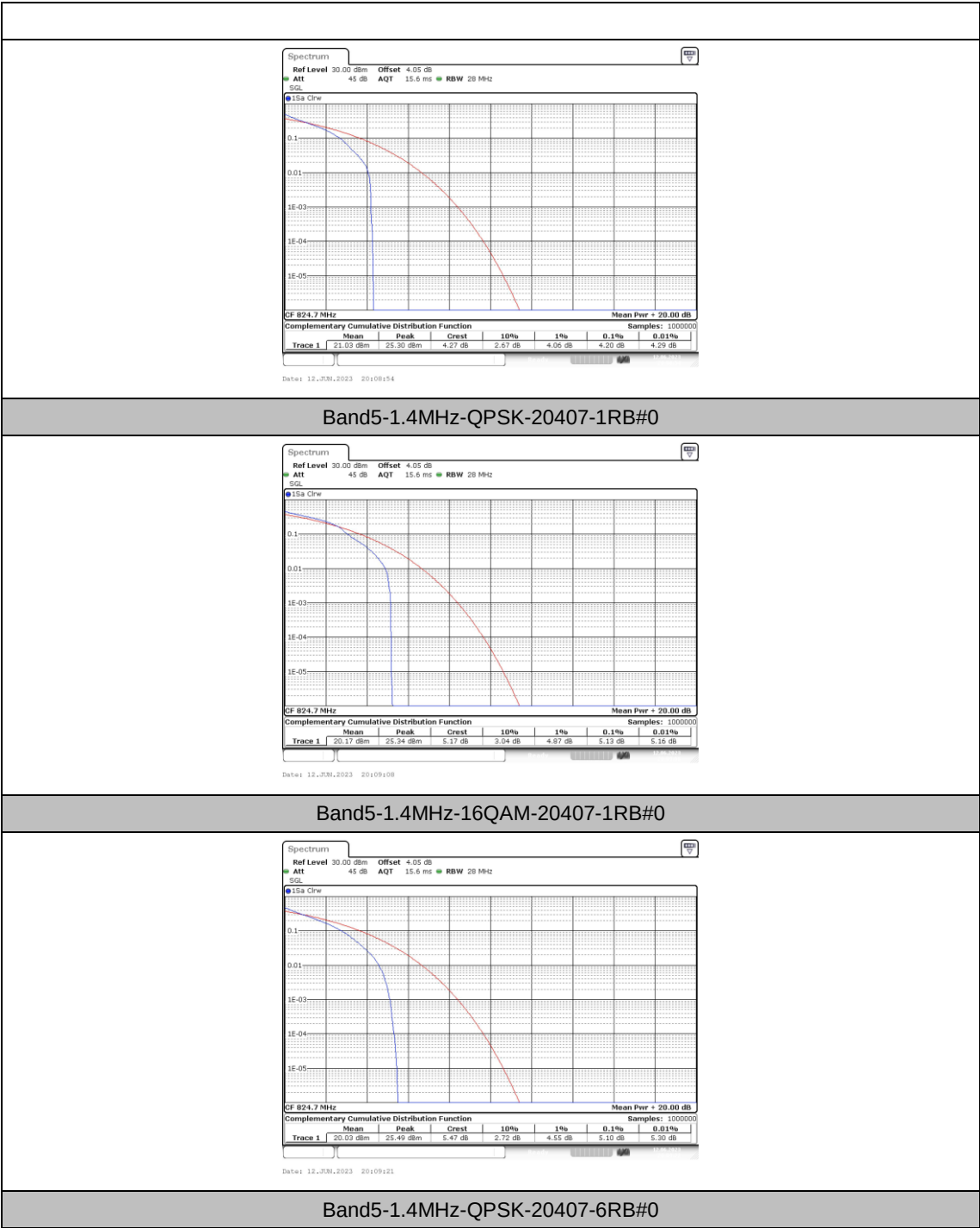
Appendix B: Peak-to-Average Ratio(CCDF)

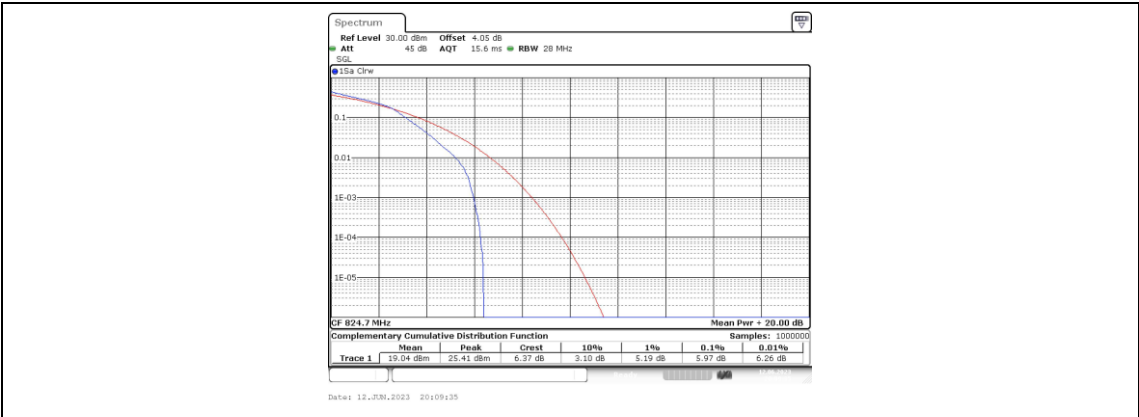
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.20	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.13	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.10	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.97	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.43	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.48	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.04	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.91	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.84	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.80	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.48	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.41	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.32	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.01	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.39	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.23	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.61	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.51	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.10	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.03	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.87	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.77	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.57	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.46	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.23	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.10	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.45	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.29	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.70	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.62	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.10	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.00	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.49	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.16	13	PASS

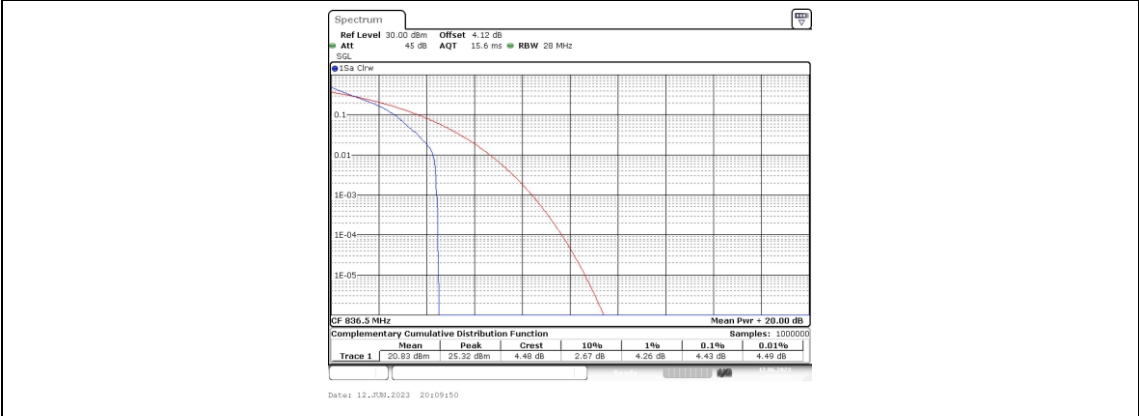
Band5	5MHz	QPSK	20625	25RB#0	5.54	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.38	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.17	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.01	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.54	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.38	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.81	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.65	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.07	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.00	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.42	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.12	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.19	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.06	13	PASS

Test Graphs

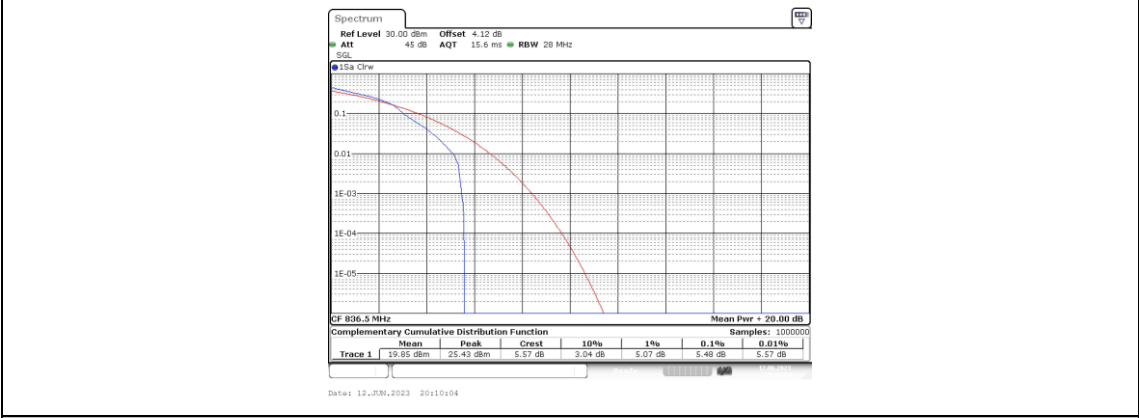




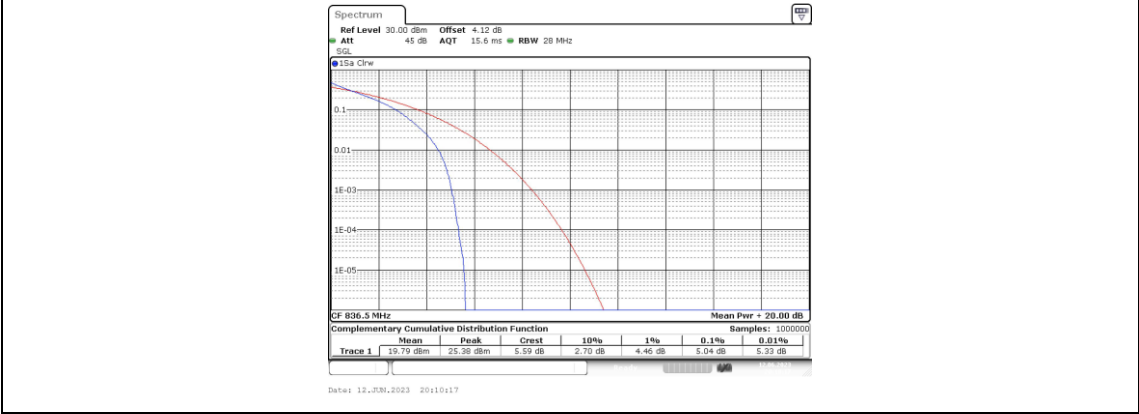
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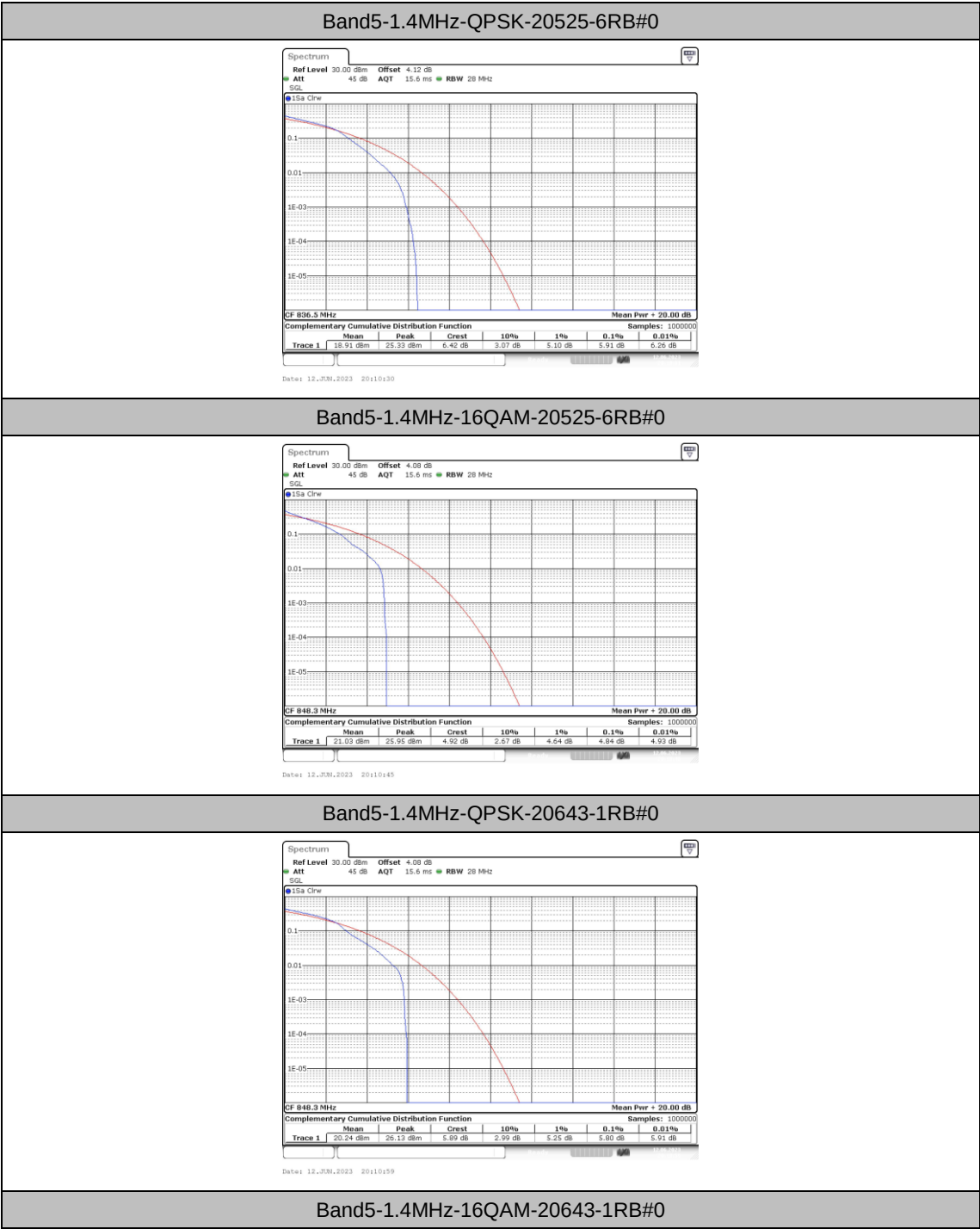


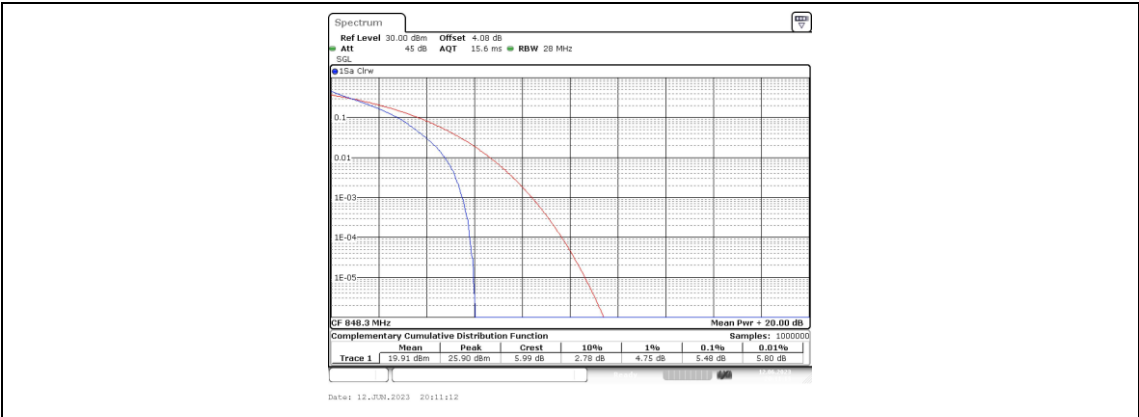
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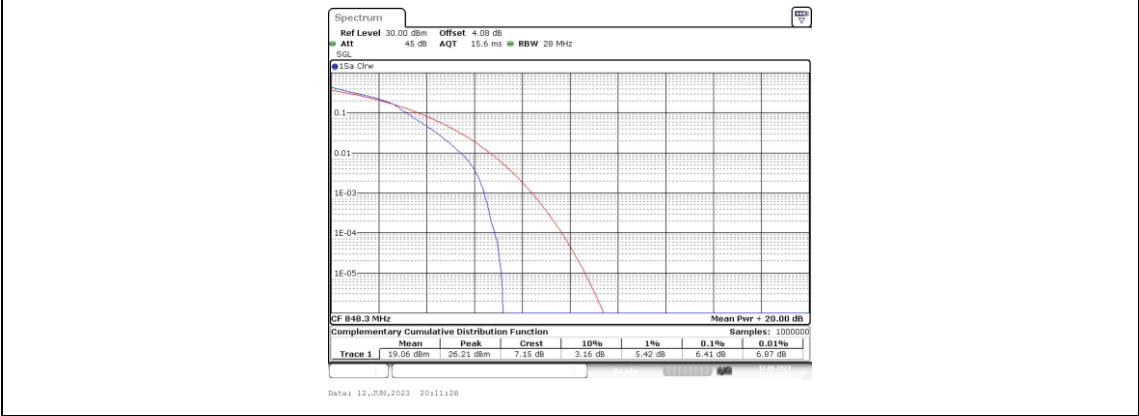
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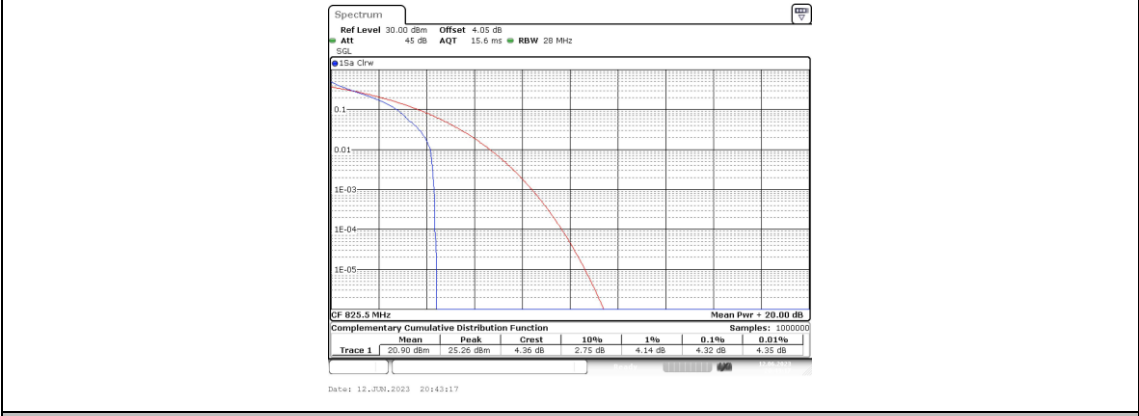




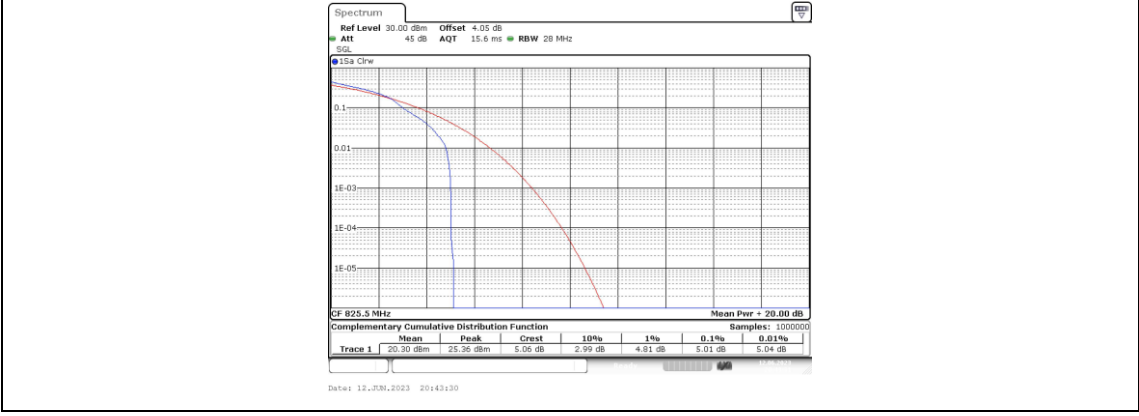
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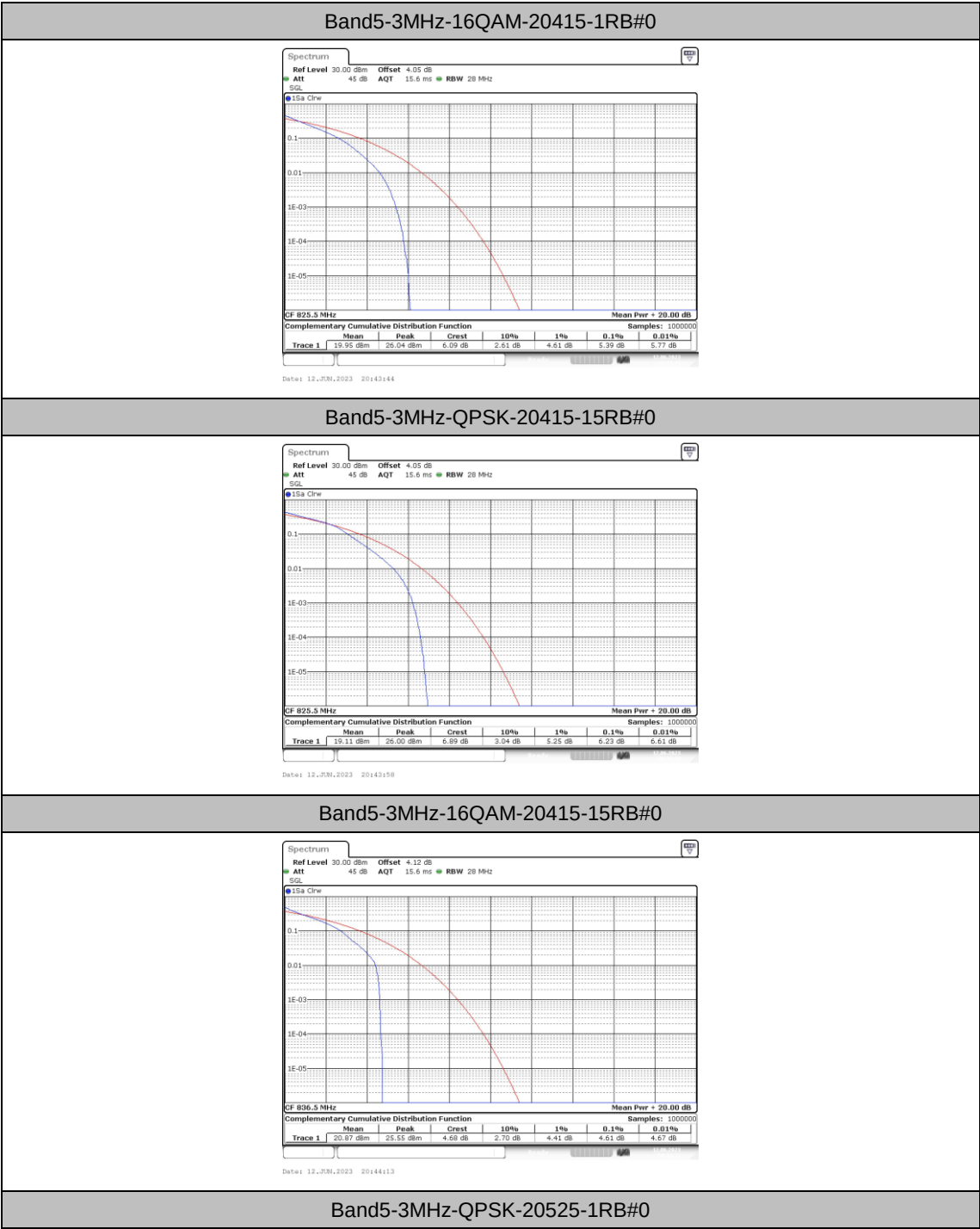


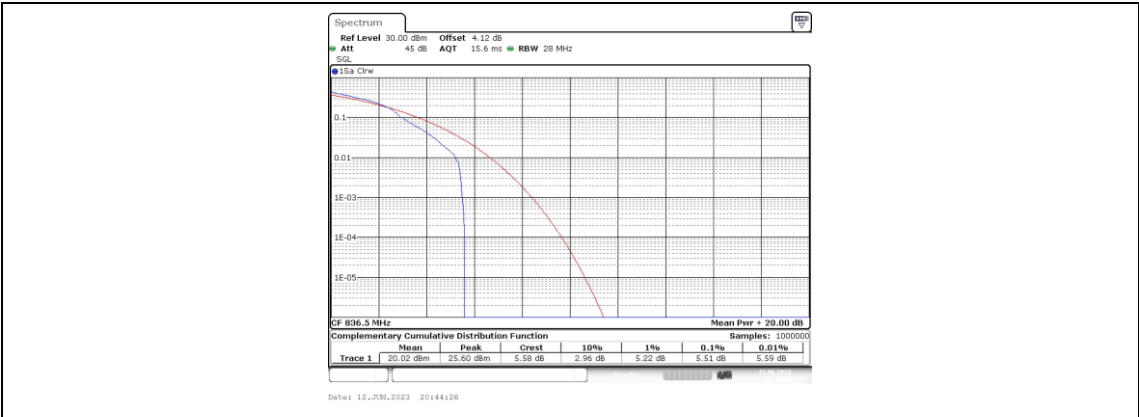
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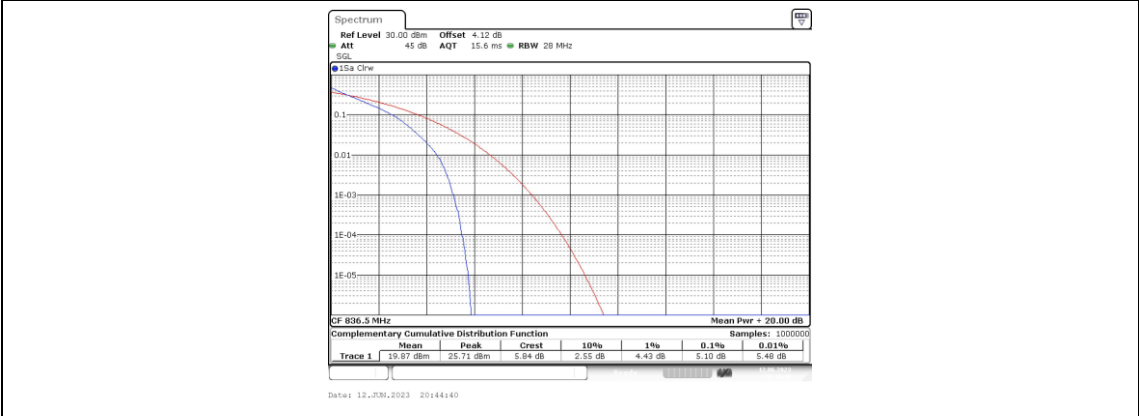
Band5-3MHz-QPSK-20415-1RB#0



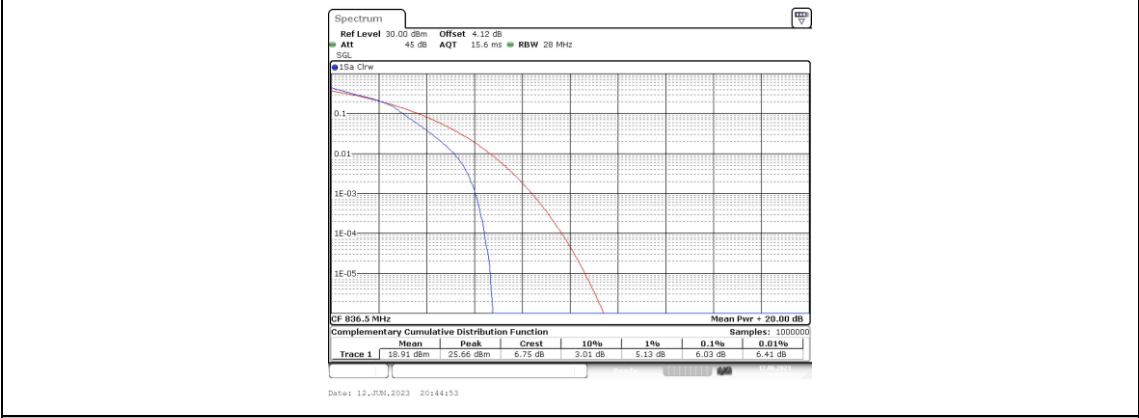




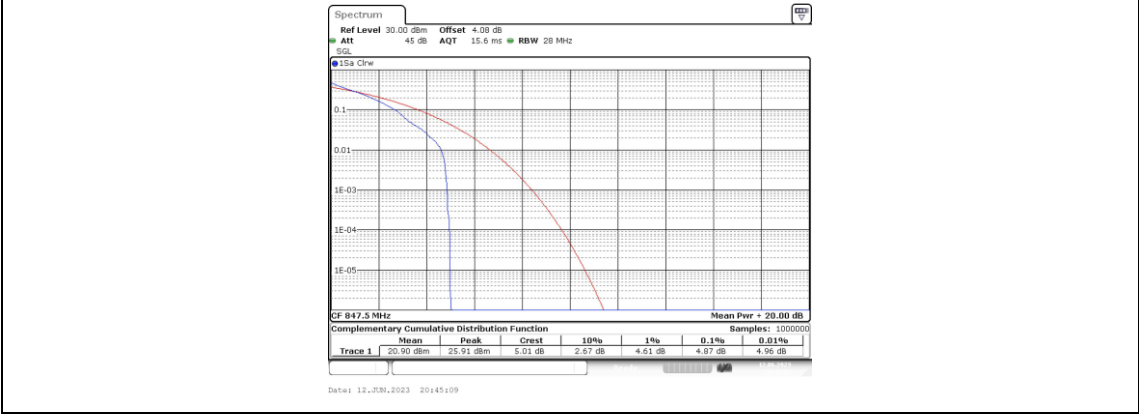
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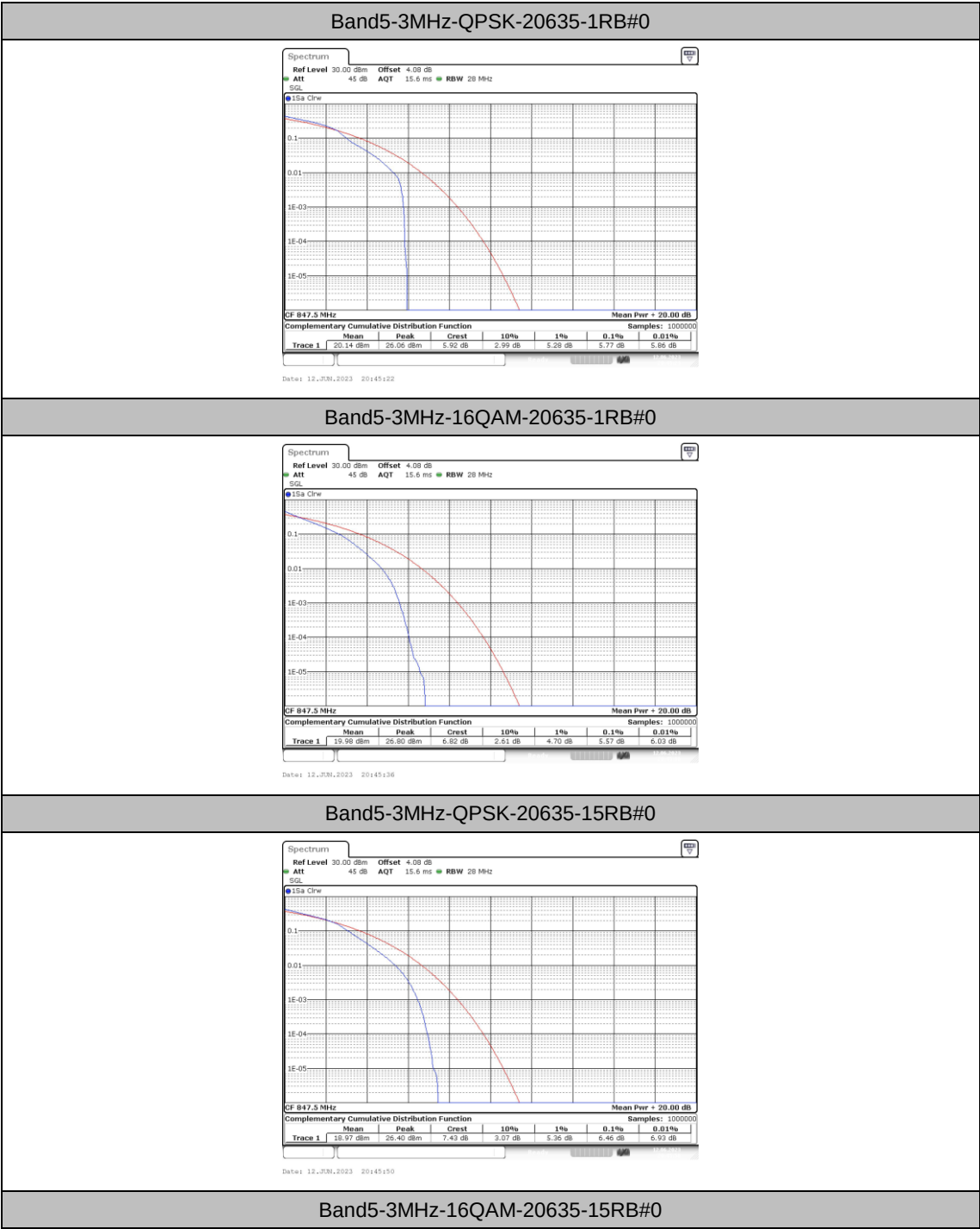


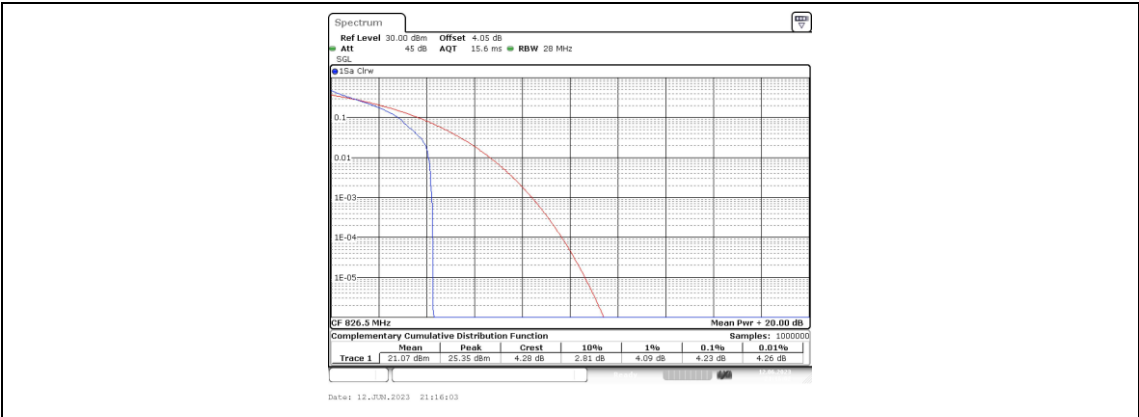
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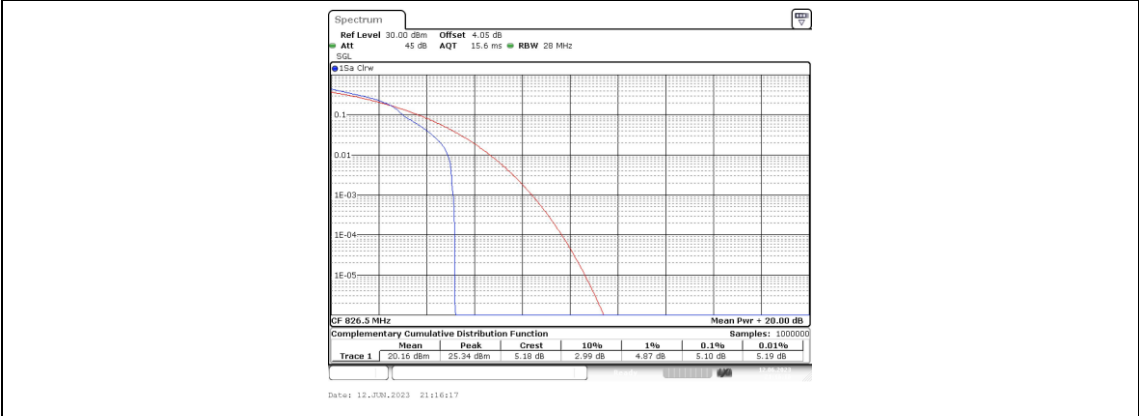
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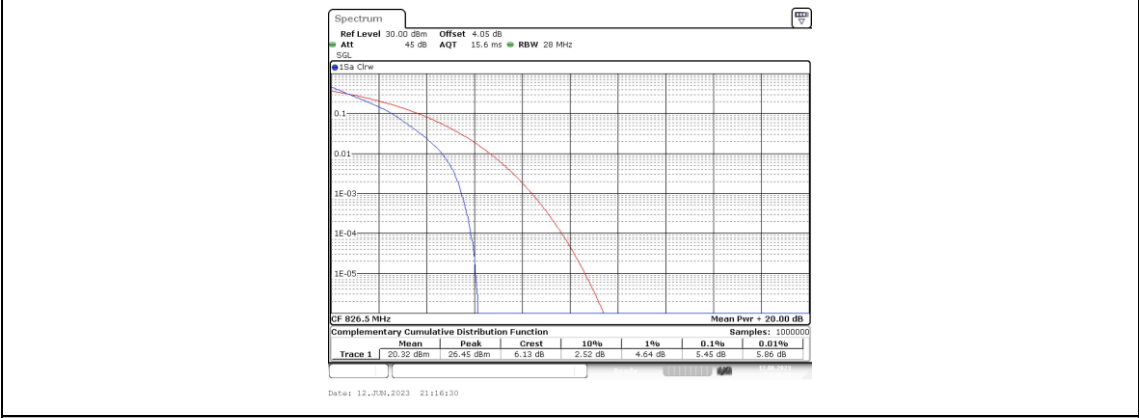




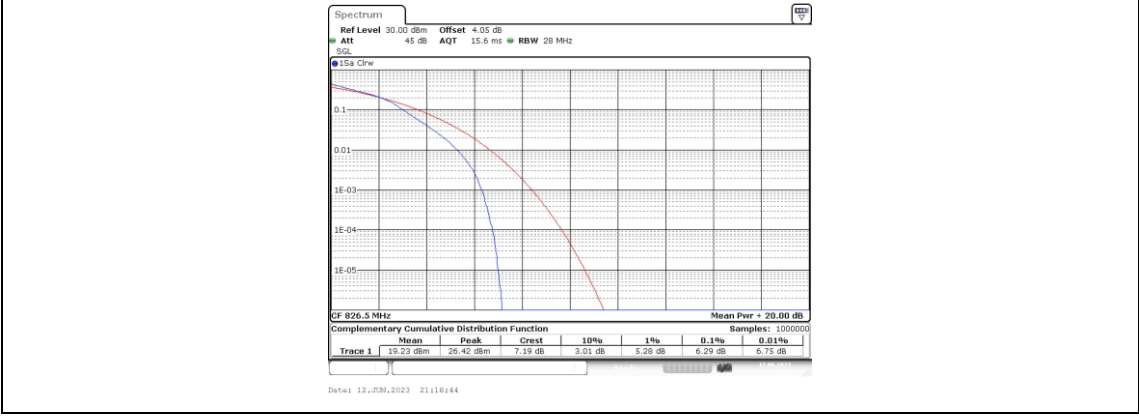
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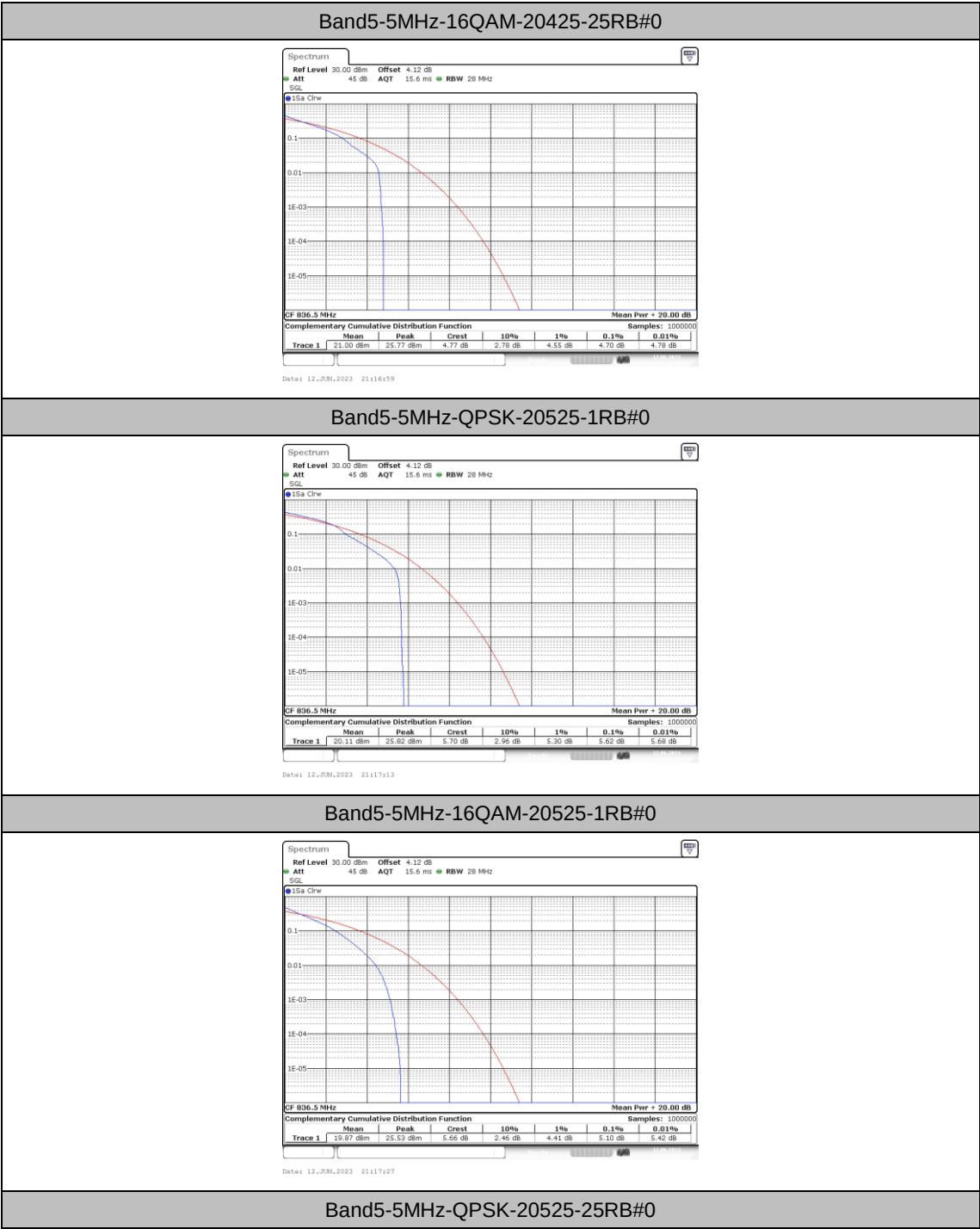


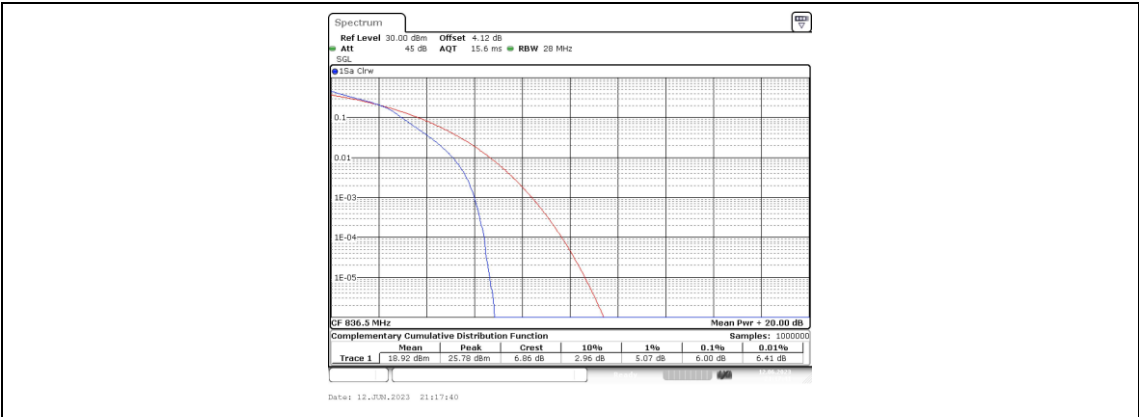
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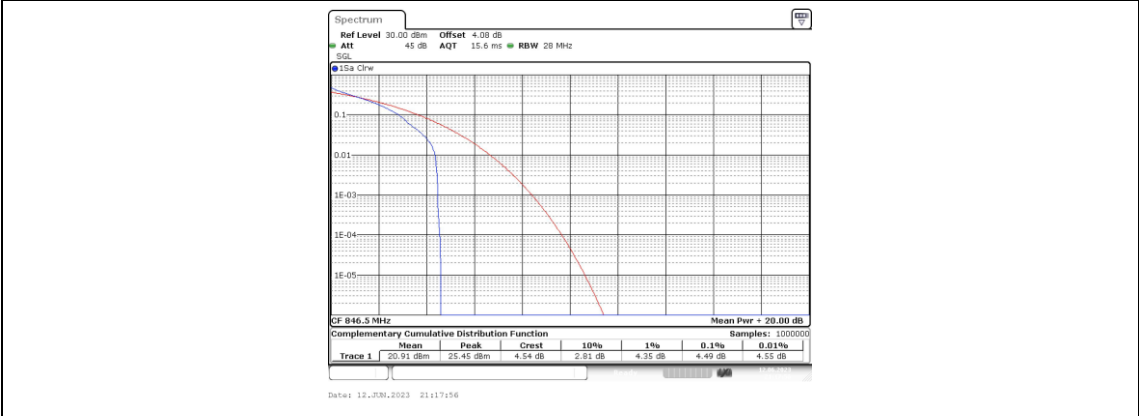
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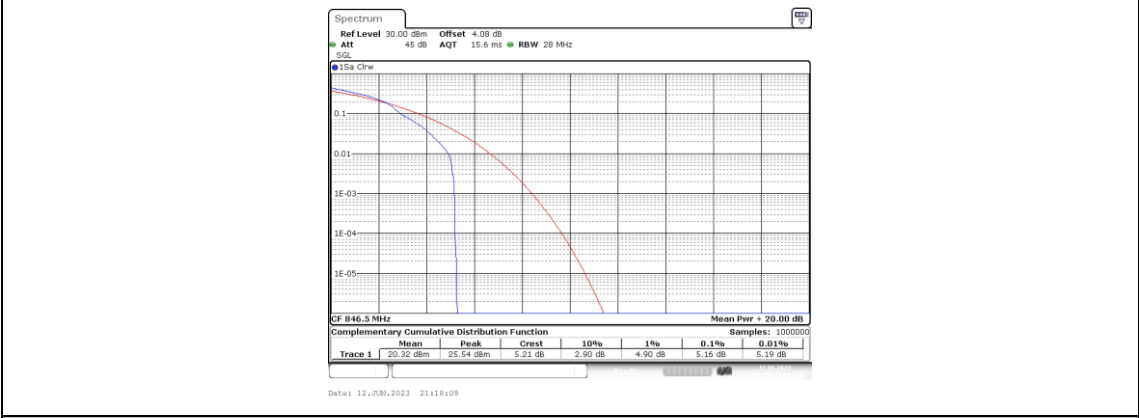




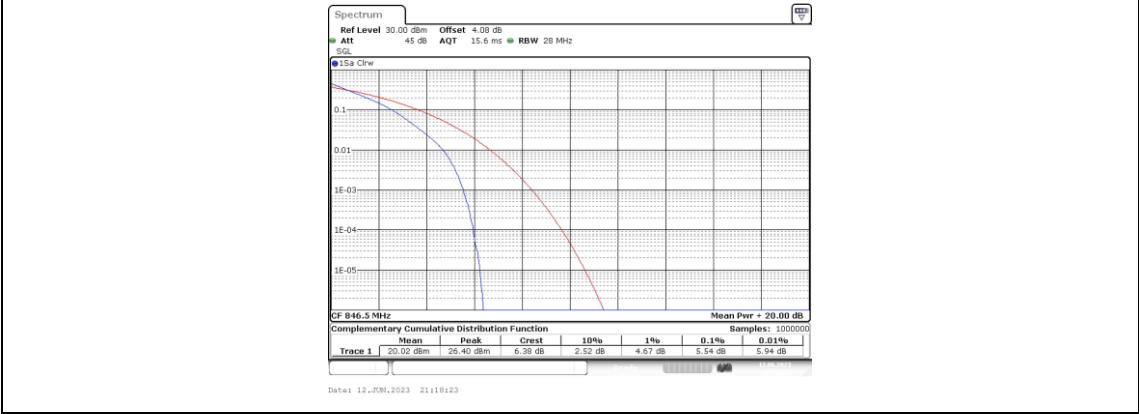
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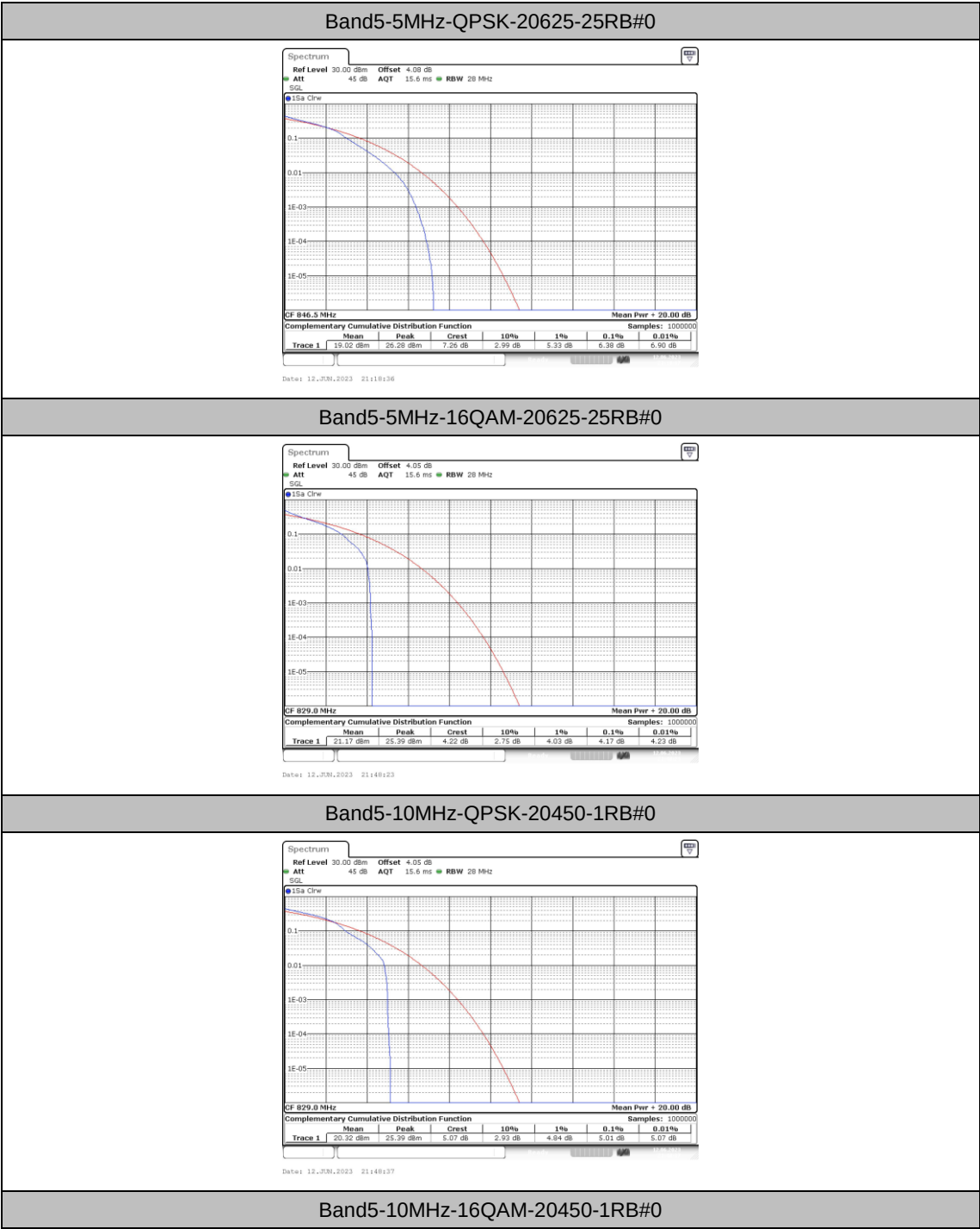


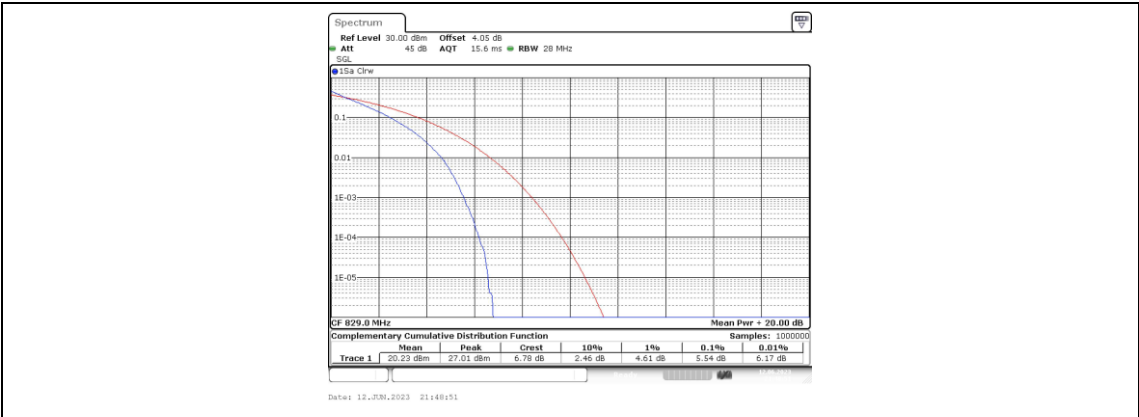
Band5-5MHz-QPSK-20625-1RB#0



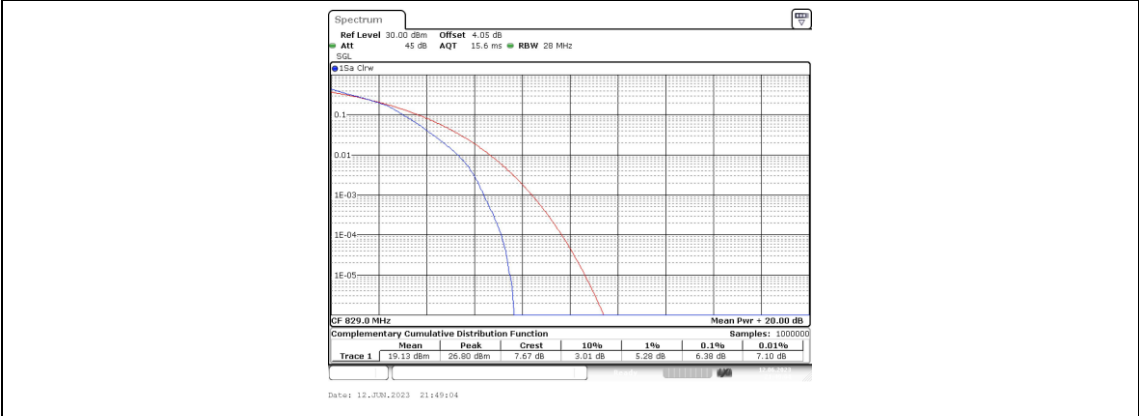
Band5-5MHz-16QAM-20625-1RB#0



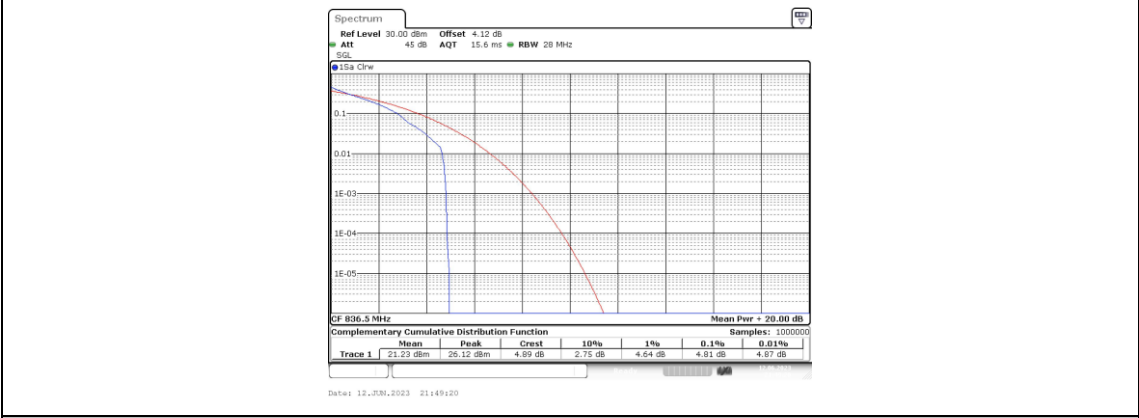




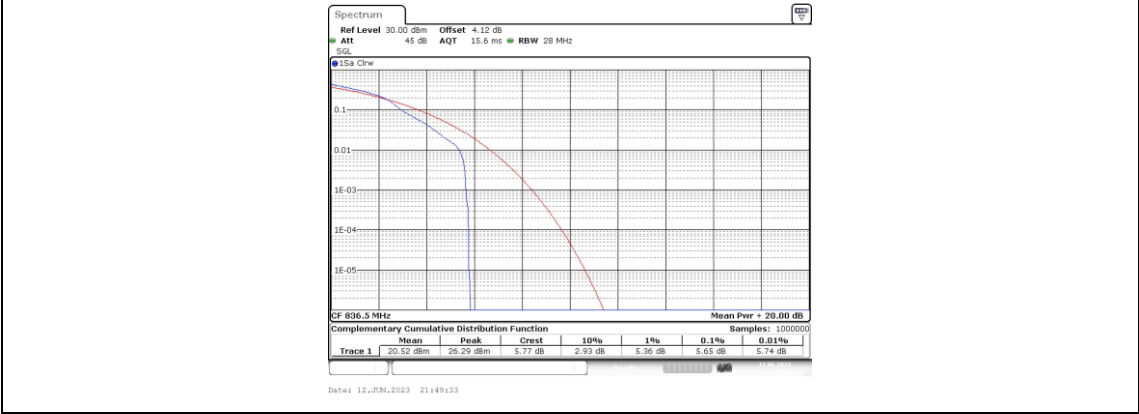
Band5-10MHz-QPSK-20450-50RB#0

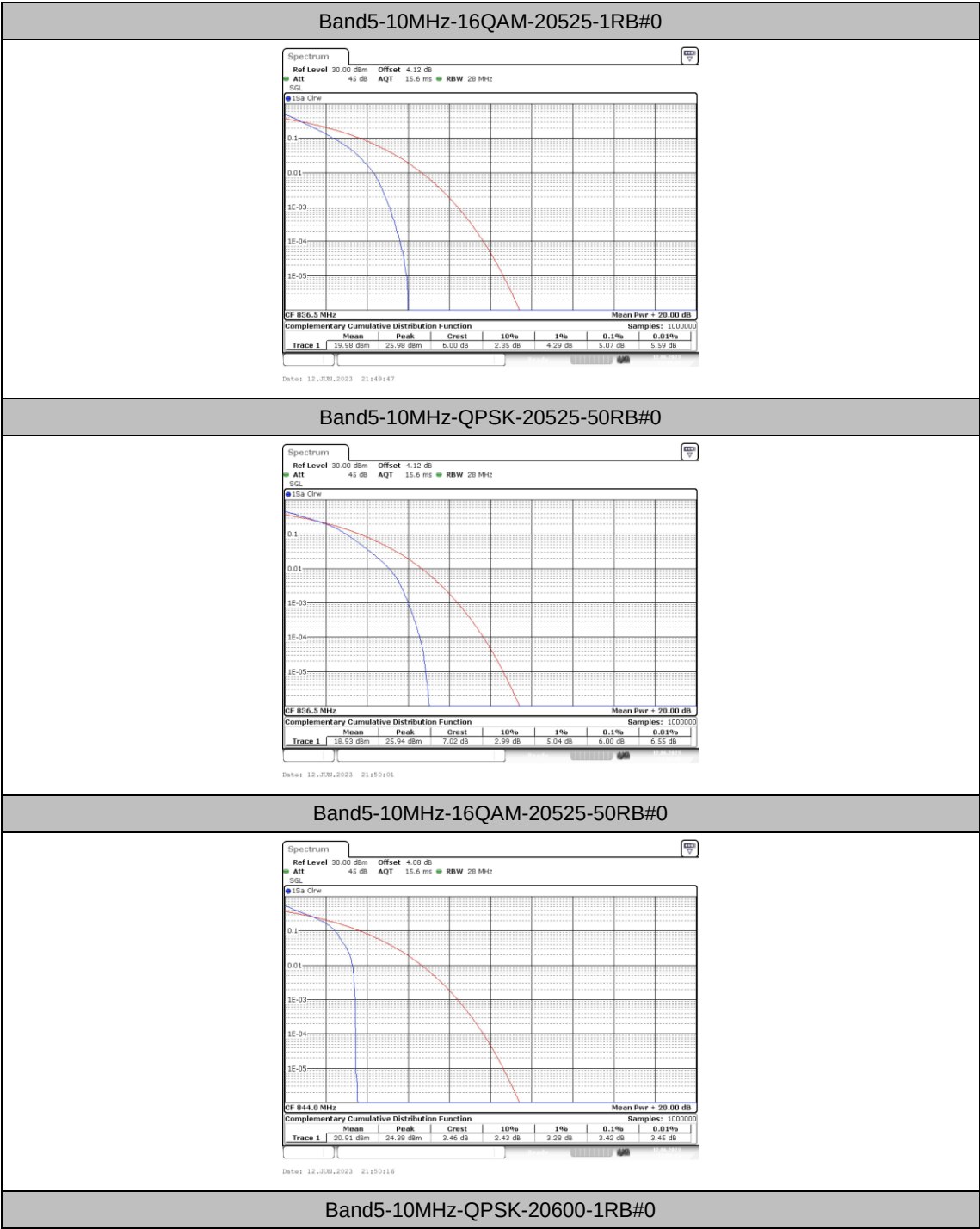


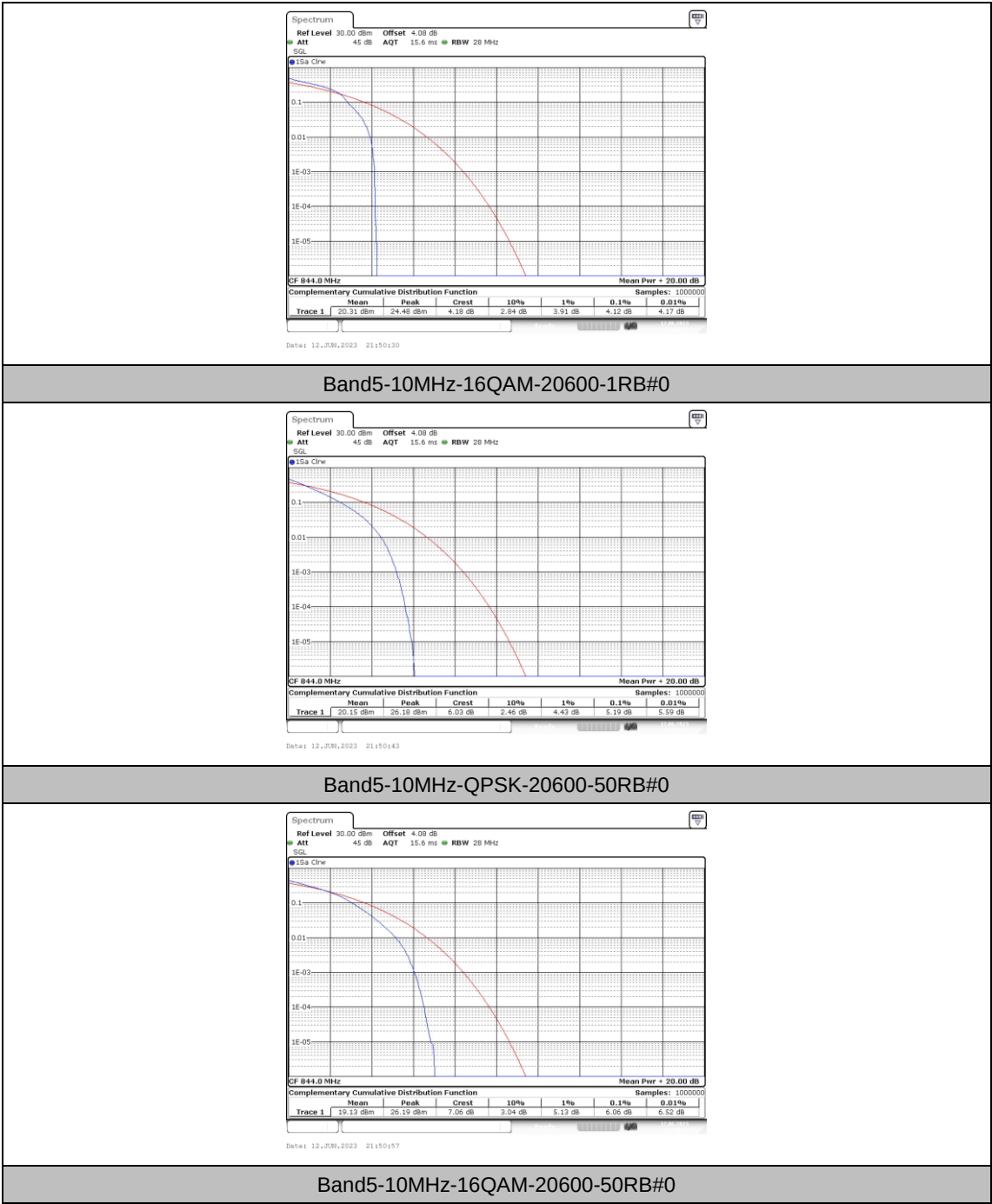
Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-QPSK-20525-1RB#0







Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.093	1.21	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.21	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.093	1.22	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.083	1.23	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	2.84	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.686	2.86	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.686	2.86	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.696	2.89	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	2.87	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.696	2.89	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.505	4.80	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.505	4.79	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.496	4.78	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.505	4.78	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.496	4.78	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.505	4.79	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.985	9.57	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	9.53	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.952	9.53	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.952	9.53	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.985	9.53	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.985	9.53	PASS

Test Graphs

